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Prediction of optical modulation properties of twisted-nematic liquid-crystal display by improved measurement of Jones matrix

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2. Despejar X^2, Y^2, Z^2 y W^2

$$
\begin{aligned}
I_1 &= X^2 + Y^2, \\
I_2 &= X^2 + Z^2, \\
I_3 &= X^2 + W^2.
\end{aligned}
$$

$$X^2 + Y^2 + Z^2 + W^2 = 1$$

$$
\begin{aligned}
X^2 &= \frac{1}{2}\left(I_1 + I_2 + I_3 - 1\right), \\
Y^2 &= \frac{1}{2}\left(I_1 - I_2 - I_3 + 1\right), \\
Z^2 &= \frac{1}{2}\left(I_2 - I_1 - I_3 + 1\right), \\
W^2 &= \frac{1}{2}\left(I_3 - I_1 - I_2 + 1\right).
\end{aligned}
$$